BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of Work: Development Works for Providing Drinking Water Facility in Bagalagunte Ward No. 14.

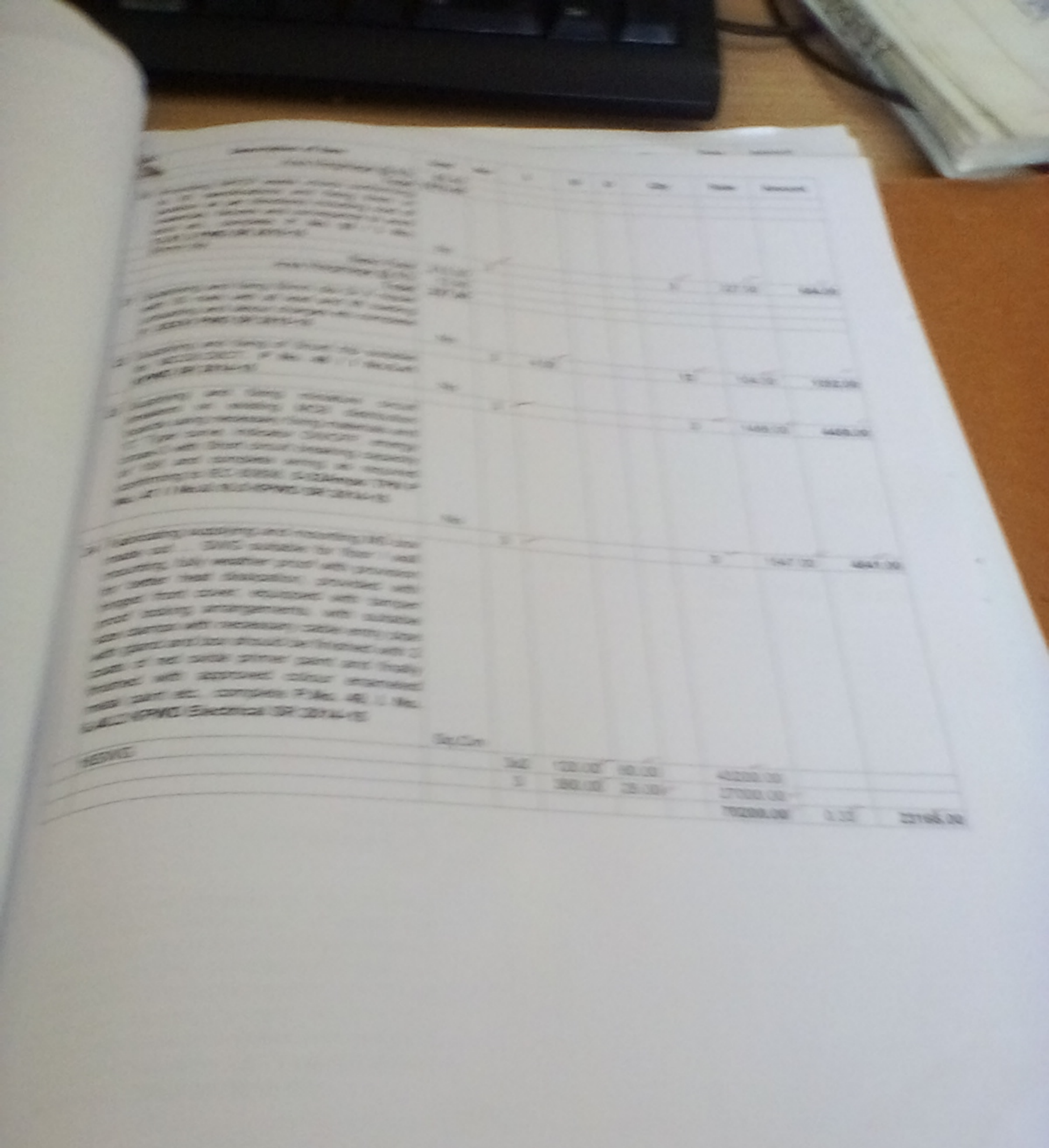
Estimate Cost Rs: 1500000.00

Sl No	Description of Item	Unit	Rate	I	II	III	Qty	Rate	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Varner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Wate in the vicinity, its quality f 1.0 meter in consolidated formation for proper sealing of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**	Each BW							
	Basic Rate	1882.00			3		3	1938.46	5815.99
	Area Weightage @ 3%	56.46							
	Total	**1938.46**							
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr							
	0 to 50 m				3	50.00		150.00	324.64	48695.00
	Basic Rate	315.18								
	Area Weightage @ 3%	9.46								
	Total	**324.64**								
	50 to 100 m				3	50.00		150.00	424.36	63654.00
	Basic Rate	412.00								
	Area Weightage @ 3%	12.36								
	Total	**424.36**								
	100 to 150 m				3	50.00		150.00	472.10	70815.00
	Basic Rate	458.35								
	Area Weightage @ 3%	13.75								
	Total	**472.10**								
	150 to 200 m				3	50.00		150.00	498.62	74793.00
	Basic Rate	484.10								
	Area Weightage @ 3%	14.52								
	Total	**498.62**								

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	200 to 250 m								
	Basic Rate	560.32	3	50.00			150.00	577.13	86569.50
	Area Weightage @ 3%	16.81							
	250 to 300 m Total	577.13							
	Basic Rate	600.49	3	50.00			150.00	618.50	92775.00
	Area Weightage @ 3%	18.01							
	300 to 350 m Total	618.50							
	Basic Rate	622.00	3	50.00			150.00	640.66	96099.00
	Area Weightage @ 3%	18.66							
	Total	640.66							
3	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baselo open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**	Rmtr							
	Basic Rate	1325.00	3	70.00			210.00	1364.75	286597.50
	Area Weightage @ 3%	39.75							
	Total	1364.75							
4	Providing 250mm dia PVC Pipe 6kg/cm **SWSSB SR 2014-15 P. 53 Item No. I (II)**	Rmtr							
			3	18.00			54.00	754.47	40741.99
5	Providing and fixing 160mm Borewell Cap **P. iii, I No. 85**	Each							
			3				3	100.00	300.00
6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings ATALANTA, SUGNA, CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2015 16 P. XXXXI Item No. 34 including of all taxes**	No							

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	17.5 HP 30 Stage								
7	KSRR 13.3.6: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour, charges HO&M of equipments complete as per specifications. Specification No. KBS 13.2.14 /13.6 **Page No. 90 / Item No. 13.15 / PWD SR 2015-16**	M	3	280.00			840.00	431.00	361640.00
8	Heavy Duty Collar 50 mm dia	Nos	145				145	130.00	18850.00
9	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694 1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 6 Sqm mm KPWD Electrical SR 2014-15**	Mtr	3x2	285.00			1710.00	188.70	322677.00
10	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) **(As per rate approved KUWS & DB for year 2008-09**	No	3				3	3000.00	9000.00
11	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each	3				3	302.00	906.00
12	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr	3	50.00			150.00	140.40	21060.00

	Description of Item	Unit	No	L	W	H	Qty	Rate	Amount
	Labour charges for laying of 1.1 KV class UG cable in existing trough on pole / wall / on ground to existing transformer **P No. 61 / No. 7.8.1 KSpwd to 18 Kpwd KPWD Electrical SR 2014-15**	MM							
14	Digging of trench of 0.6m deep x 0.60 mtr wide (where the trench is the required ground level and consisting etc., complete (As per Unit SR Part) **P. No. 61 / 1. No. 7.8.3 KPWD Electrical SR 2014-15**	MM	3	60.00			180.00	10.00	1800.00
	For Cutting Road Surface								
15	Supplying and laying of class A (medium duty) GI pipe of well thickness not less than 3.25mm on pole/wall/in trenching with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / 1 No. 7.12.4 KPWD Electrical SR 2014-15**	MM	3	45.00			135.00	60.00	11475.00
	40mm dia GI pipe								
16	Supplying and fixing I.T. cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No	3	4.00			12.00	345.00	4140.00
	185qmm								
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per IS! specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia. **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No	3				3.00	280.00	840.00
18	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers **P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No	3				3	272.00	816.00
	32 Amps		18	3x6			18	180.00	3240.00
19	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 90 Item No. 13.55 / PWD SR 2015-16**	Nos	3				3	1579.60	4738.80
		Basic Rate	1490.00						



Sl	Description of Item	Unit	No.	L	B	D	Qty	Rate	Amount
	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shine/Adarsh/ Gir. Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof A.C supply with spring loaded latch locking device with a key (Six should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta Starter SEEDED Rate	No	3				3	11500.00	33666.00
26	KSR/R8 M200-12.2 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead and lead of 10000 meters complete as per specifications. lime/cement concrete. I.by manual means B. cement concrete grade M-15 & M-20 **No. 136 / Item No. 18.18 / PWD SR 2015-16**	Cum	1	195.00	0.75	0.30	43.88	43.88	375.24	16466.39
	Basic Rate	354.00							
	Area Weightage @ 6%	21.24							
	Total	**375.24**							
27	Earthwork excavation for pipeline trenches including depositing or bank up to a lead of 50 mtrs including sharing and strutting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following structure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum	1	195.00	0.75	0.75	109.69	109.69	193.64	21240.39
	Basic Rate	188.00							
	Area Weightage @ 3%	5.64							
	Total	**193.64**							
28	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and including lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 Item No.3.4.2 b PRED SR 2012-13.**	Rmtr							

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	160 mm dia & KSC PVC pipe		1	195.00			195.00		
	Basic Rate	157.00					195.00	161.71	31533.00
	Area Weightage @ 3%	4.71							
	Total	**161.71**							
29	*Refilling the basement and pipeline trenches with secleted available earthe for trench excavation including authority condition in layers from thedi including dispensary of the sunplus earth with a heavy 200 mtrs* **Page No. 3 / Item No. 1.6 / PWD SR 2012-13**	Cum					Qty Vide Item No. 27	189.88	62.83	5693.00
	Basic Rate	61.00							
	Area Weightage @ 3%	1.83							
	Total	**62.83**							
30	KSRB 4-1.3 *Providing and laying in position plain cement concrete of* **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** *and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2.* **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum								
	Refilling Excavated Portion		1	195.00	0.75	0.15	21.94		
							21.94	4976.70	109178.00
	Basic Rate	4695.00							
	Area Weightage @ 6%	281.70							
	Total	**4976.70**							
31	*Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams.* **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum								
	Refilling Excavated Portion		1	195.00	0.75	0.15	21.94		
							21.94	6214.78	136337.00
	Basic Rate	5863.00							
	Area Weightage @ 6%	351.78							
	Total	**6214.78**							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
3 Contractor Water Storage tank of specified capacity and Make moulded frame. (For 2000 ltr capacity) Page No. xxx / 3) No.Ref: Code No.13322	L							
4 KSR(13:45:2) :- Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HCM of equipment with all leads complete as per specification No. KBIS 13:2:2013:3 P. 91 / 13:27 PWD SR 2015-16.	Each							
5 KSR(13:1:1) Providing and fixing in position galvanised(hot) steel 'Uben, (medium grade) 15mm dia nominal bore with all fitting, earth work in trenches to be measured and paid for separately)including coppers as per specification No. KBIS 13:2:14(13:6 P.92 / 13:13PWD SR 2015-16.	Each	4	4.0			64		
6 KSR(13:6:3:4) Providing and fixing in position brass gate valve with C.I. wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HCM of equipments with all leads complete as per specifications. Specification No. KBIS 13:2:6(13:3 P. 93 / 13:37 PWD SR - 2015-16.	Each	1	3 X 1 = 3			3		
Basic Rate 2000.00								
Area Weightage @ 6% 120.00								
Total 2120.00								
6 KKIDL CHARGES								
7 BESCOM Deposit for Borewell	LS	1	10000.00					10000.00
8 Miscellaneous and Unforeseen Charges	LS							1360.00
							Total	2500000.00

(Rupees Twenty Five Lakhs Only)

CERTIFICATE:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per C.S.R. of PWD 2013-15, PWD Electrical 2014-15, PWD 2013-13 & SE-ROM approved Rate.
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under E.E.M.P. limits.

Assistant Engineer
Ward No. 14

Executive Engineer
Bangalore Mahanagara Palike
Dasarahalli Division

Page 3 of 3

Executive Engineer
Bangalore Mahanagara Palike
Dasarahalli Sub Division